



in (mm)

Three-position, 4-way directional cartridges are spring-centered, 6-port directional valves that can be configured from a choice of spool options. The supply port is port 3 and all ports will accept 5000 psi (350 bar). Capacity for these pilot-to-shift valves is dependent on the spool type specified.

TECHNICAL DATA NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-53A
Series	3
Capacity	40 gpm
Maximum Operating Pressure	5000 psi
Minimum Pilot Pressure Required to Shift Valve	200 psi
Maximum Valve Leakage at 110 SUS (24 cSt)	10 in ³ /min. @ 1000 psi
Pilot Volume Displacement	.11 in ³
Valve Hex Size	1 1/4 in.
Valve Installation Torque	150 - 160 lbf ft
Seal kit - Cartridge	Buna: 990-053-007
Seal kit - Cartridge	Viton: 990-053-006

OPTION SELECTION EXAMPLE: DDFCXCNV

CONTROL	(X)	SPOOL CONFIGURATION	(C)	SEAL MATERIAL	(N)	MATERIAL/COATING
X Not Adjustable		C Blocked Center		N Buna-N		Standard Material/Coating
		B B to T Center		V Viton		IAP Stainless Steel, Passivated
		D Blocked Center, Regen, P to B and A to T				
		H Open Center				
		R Regen Center				
		T Tandem Center				
		W A and B Bleed to T Center, Restrictive				
		Y A and B Bleed to T Center				

TECHNICAL FEATURES

- All ports will accept 5000 psi (350 bar), including the x and y pilot ports (port 1 and port 6).
- Leakage listed in technical data is for each path, including pilot paths.
- Hardened spool and sleeve provide consistent and low spool leakage rates and excellent wear characteristics.
- Incorporates the Sun floating-style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES



